

SOV/111-58-11-15/36

AUTHOR: Podgorodetskiy, I.A., Candidate of Economic Sciences, Docent

TITLE: Communications - A Branch of the Economy (Svyaz' -
otrasl' material'nogo proizvodstva)

PERIODICAL: Vestnik svyazi, 1958, Nr 11, pp 17-19 (USSR)

ABSTRACT: The first part of this article was printed in Vestnik svyazi,
1958, Nr 10. In the second part the author discusses com-
munications as a branch of the economy. He occasionally
cites Lenin and Karl Marx.
There are 2 Soviet references.

Card 1/1

ODGORODETSKIY, I.A., kandidat ekonomicheskikh nauk, dotsent.

Method for determining the income of communications enterprises for
services rendered: Vest.sviazi 16 no.4:14-16 Ap '56. (MLRA 9:9)
(Telecommunication--Accounting)

PODGORODETSKIY, I. A.

753
.P7

Planirovaniye Produktssii V Predpriyatiyakh Svyazi (Planning Production in a Communications Enterprise) Moskva, Svyaz'izdat, 1955.

41 P. Tables.

At Head of Title: Russia. Ministerstvo Svyazi. Tekhnicheskoye Upravleniye.
Bibliographical Footnotes.

PODGORODETSKIY, Ivan Aleksandrovich; VISHNEVSKIY, A.A., redaktor; STRUKOV,
A.N., redaktor; LEDNEVA, N.V., tekhnicheskiy redaktor

[Planning production in communication enterprises] Planirovanie
produktsei v predpriyatiyakh svyazi. Moskva, Gos.izd-vo lit-ry
po voprosam svyazi i radio, 1955. 41 p. (MLRA 9:3)
(Communication and traffic)

BIRGER, N.G.; WANG KANG-CH'ANG; WANG TS'U-TS'ENG; TING TA-TS'AO; KATYSHEV,
Yu.V.; Kladnitskaya, Ye.N.; KOPYLOVA, D.K.; LYUBIMOV, V.B.; NGUEN
DIN TY; NIKITIN, A.V.; PODGORETSKIY, M.I.; SOLOV'YEV, M.I.

[Inelastic interaction of 6.8 BeV/s π^- -mesons and nucleons]
Neuprugie vzaimodeistviia π^- -mezonov s impul'som 6,8 BeV/s s
neuklonami . Dubna, Ob"edinenyyi in-t iadernykh issl., 1961. 30 p.
(MIRA 14:11)

(Mesons)

(Nucleons)

PODGORODETSKIY, N.D.

Sectional BP-1 hopper train with bottom loading. Vop. rud. transp.
no.3:223-233 1959. (MIRA 14:4)

1. TGMZ.

(Mine railroads)

PODGORODETSKIY, N.P., vetvrach.;SADOVSKAYA, L.I., vetvrach.

Treatment of trichomonal colpitis in cattle. Sbor. trud. Khar', vet.
inst. 22:327-331 '54. (MIRA 9:12)

1. Khar'kovskaya oblvetbaklaboratoriya.
(Vagina--Diseases) (Veterinary medicine)

PODGORODETSKIY, N.P.

Veterinary service in stockbreeding in England. Veterinariia 36
no.12:66-68 D '59.
(MIRA 13:3)

1.Direktor Khar'kovskoy oblastnoy veterinarnoy bakteriologicheskoy
laboratorii.
(England--Veterinary medicine)

1. FODGORODETSKIY, N. P.; SADOVSKAYA, L. I.
2. USSR (600)
4. Chicken Pox in Poultry
7. Pox-diphtheria in turkeys, Nauch. trudy UIEV, No. 18, 1951.
9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

PODGORODETSKIY, N. P. (Vet.); DOROSHKO, I. N.; SANDOVSKAYA, L. I.

"Smallpox diptheria of turkeys."

SO: Vet. 27 (11) 1950, p. 25

PODGORODETSKIY, P.D.

Paleontologic find in the Sivach Valley of the Crimea. Biul.
Kom.chetv.per. no.27:142-143 '62. (MIRA 16:4)
(Sivash Valley--Paleontology, Stratigraphic)

PODGORODETSKIY, P.D.

Fossil vertebrate bones. Priroda 49 no.5:113-114 My '60.
(MIRA 13:5)

1. Krymskiy gosudarstvennyy pedagogicheskiy institut im. M.V.
Frunse, Simferopol'.
(Tarkhankut, Cape---Vertebrates, Fossil)

PODGORODETSKIY, P.D.

Small steppe depressions and shallows of the Ukrainian Black Sea region.
Izv. Krym.otd. Geog.ob-va. no.2:19-30 '53. (MLRA 8:7)
(Black Sea region--Physical geography)

GUBANOV, Ivan Grigor'yevich, st. преподаvatel'; PODGORODETSKIY,
Petr Dmitriyevich, kand. geogr. nauk; SHUL'TS, N., red.;

[Treasures of the earth; geological review and minerals
of the Crimea] Bogatstva neдр; geologicheskii ocherk i
poleznye iskopaemye Kryma. Simferopol', Izd-vo "Krym,"
1965. 84 p. (MIRA 19:1)

1. Krymskiy gosudarstvennyy pedagogicheskiy institut im.
M.V.Frunze (for Podgorodetskiy, Gubanov).

PODGORODETSKIY, P.D. [Pidhorodets'kyi, P.D.]

Present-day tectonic movements on Cape Tarkhankut..
Zbir. no.4:181-183 '61. (MIRA 14:8)
(Tarkhankut, Cape--Geology, Structural)
(Tarkhankut, Cape--Lakes)

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Mechanism of adhesion of the emulsion to the film support. P. V. Kuzlov and E. Rodgerich. *18th Congr. intern. phot., Paris 1935*, 253-62. When the substratum is coated on the support the latter swells greatly and is superficially dissolved. On evapn. of the more volatile of the substratum constituents the H₂O and gelatin remain in the form of a thin layer of gel, which adheres to the swollen and partially dissolved surface of the support. The simultaneous drying of the gel surface then leads to a stronger adhesion of the gelatin, by virtue of its cohesion, to the support. K. and P. have found that the rates of drying at these 2 surfaces should be equal. The importance of this condition can be demonstrated by an expt. in which film support, after being caused to swell superficially by a prolonged immersion in alc., is coated directly with photographic emulsion; on drying, the emulsion adheres strongly. K. and P. thus conclude in favor of a colloidchem. theory of reciprocal action between the film support and the constituents of the substratum.

E. R. Bullock

ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION

1930-1939

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BAYRACHENKO, I. V.; PODGORODETSKIY, Ye. D.

Apparatus for the experimental study of the scattering of radio waves along meteor trails. Sbor. rab. po mezhdunar. geofiz. godu no.1:49-51 '61. (MIRA 25:10)

(Meteors) (Radio waves—Scattering)
(Radar meteorology)

L1960

S/194/62/000/009/079/100
D413/D308

9.9400

AUTHORS: Bayrachenko, I. V. and Podgorodetskiy, Ye. D.

TITLE: Equipment for experimental investigation of the scattering of radio waves by meteor trails

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 9, 1962, abstract 9-7-54 ts (Sb. rabot po Mezhdunar. geofiz. godu, Kiyevsk. un-t, no. 1, 1961, 49-51)

TEXT: Indicating and recording equipment has been developed for investigating the scattering of radio waves by meteor trails. The design of the equipment provides for simultaneous observation on 31, 36, 72 and 213 Mc/s. It removes errors in the film transport mechanism by a mechanical relay, and projects the screens of all the CRT's and a clock onto a single film. 5 references. [Abstracter's note: Complete translation.]

Card 1/1

S/058/62/000/006/115/136
A062/A101

AUTHORS: Bayrachenko, I. V., Podgorodetskiy, Ye. D.

TITLE: Apparatus for experimental investigations of radio wave scattering from meteor trails

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 31, abstract 6Zh208
("Sb. rabot po Mezhdunar. geofiz. godu. Kiyevsk. un-t.", 1961, no. 1, 49 - 51)

TEXT: A description is given of an indicator- recorder arrangement of radar apparatus applicable for investigating radio wave scattering from meteor trails, operating at 31, 36, 72 and 213 Mc frequencies. The arrangement enables one to determine the inclined range to the meteor, to obtain the amplitude-time characteristics of the meteors and provides the possibility of investigating the specific features of radio wave scattering from meteor trails in relation with the wavelength. ✓

[Abstracter's note: Complete translation]

Card 1/1

S/194/62/000/006/162/232
D201/D308

9,9600

AUTHORS: Bayrachenko, I.V., and Podgorodetskiy, Ye.D.
TITLE: Equipment for experimental study of radiowave scattering on meteorite tracks
PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, 31, abstract 6Zh208 (Sb. rabot po Mezhdunar. geofiz. godu. Kiyevsk. un-t, 1961, no. 1, 49-51)

TEXT: Description of indicating and recording equipment of a radar installation used for the study of meteorite track scattering of radiowaves and operating at frequencies of 31, 36, 72 and 213 mc/s. The equipment makes it possible to determine the elevation distance to the meteorite, to obtain amplitude-time characteristics of meteorites and to study the peculiarities of radiowave scattering at meteorite tracks as dependent on the wavelength. [Abstracter's note: Complete translation.]

Card 1/1

PODGORODETSKIY, Ye, AVILOV, G.

MOVING-PICTURE PROJECTION

Making a diffusion-reflection motion picture screen. Kinomekhanik, no. 38, 1952

Monthly List of Russian Accessions, Library of Congress, November, 1952. UNCLASSIFIED

PODGORODETSKIY, YE. K.

USSR/Chemistry - Nitrocellulose

FD-1811

Card 1/1 Pub 50-15/19

Author : Rozental', L. V., Cand Tech Sci; Podgorodetskiy, Ye. K., Cand Tech Sci

Title : The effect of surface-active agents on the dehydration of nitrocellulose

Periodical : Khim. prom., No 2, 112 (48), Mar 1955

Abstract : Found that when the surface-active agent OP-10 (a mixture of alkylated phenol derivatives of polyethyleneoxide) has been added, the moisture content of nitrocellulose is reduced much more effectively by centrifuging. Four references, 2 USSR, both since 1940. Three graphs, one table.

Institution: All-Union Scientific Research Ciné-Photo Institute

PODGORODETSKIY, Ye.K.

Preparing ferromagnetic film for the electromagnetic recording of
sound. Trudy NIKFI no.7:92-94 '47. (MIRA 11:6)

1. Laboratoriya tekhnologii plenki Nauchno-issledovatel'skogo kino-
foto-instituta, Moskva.
(Magnetic recorders and recording)

S/187/63/000/002/001/004
A004/A126

AUTHORS: Timofeyeva, V. G., Sherman, F. S., Podgorodetskiy, Ye. K.

TITLE: Investigating relaxation processes in triacetate films

PERIODICAL: Tekhnika kino i televideniya, no. 2, 1963, 21 - 26

TEXT: The authors investigated the relaxation in nonplasticized cellulose acetate films with different contents of combined acetic acid and at different degrees of tension and temperature. It was found that the cellulose acetate composition affects the relaxation process. The higher the amount of hydroxyl groups in the cellulose acetate, the more difficult is the relaxation process. Then the relaxation process in plasticized films of partially saponified cellulose triacetate was studied at different temperatures and tensions. It was found that the type of plasticizer added to the film affects its macrostructure. Plasticizers of low activity result in a greater reduction in tension under temperature effects than do films without plasticizers. If active plasticizers are added to the film composition, inner stresses resulting from heating due to the effect of loads are more easily removed. Such a film, after relieving the stresses, is in an equilibrium state and is subjected to a minimum shrinkage after watering. To produce
Card 1/2 .

Investigating relaxation processes in...

S/187/63/000/002/001/004
A004/A126

film bases with such properties, the drying portion of the casting machine should be equipped with devices allowing accurate control of the base tension. Besides, it is necessary to increase the temperature in the final zones of the drying portion of the casting machine up to 120°C. There are 4 figures and 3 tables.

Card 2/2

PODGORODNICHENKO V.I.

PODGORODNICHENKO, V.I.

Buried loess in Scythic clays in the Yergeni Hills. Izv. AN SSSR.
Ser. geol. 22 no.7:98-102 J1 '57. (MLRA 10:9)

1. Severo-Kavkazskaya gidrogeologicheskaya ekspeditsiya Ministerstva
geologii i okhrany neдр, Rostov-na-Donu.
(Yergeni Hills--Loess)

PODGORODNICHENKO, V.I.

11-7-7/23

AUTHOR: Podgorodnichenko, V.I.

TITLE: "About Burried Loess in Scythian Clays on the Yergeny" (O pogrebennom lesse v skifskikh glinakh na Yergenyakh)

PERIODICAL: "Izvestiya Akademii Nauk SSSR", Seriya Geologicheskaya, 1957, No. 7, pp. 98-103, (USSR)

ABSTRACT:

The study of burried loess formations is of great importance for paleogeographic reconstruction of former epochs, since peculiarities of sedimentation and composition of loess and burying processes are interconnected with certain physico-geographic conditions prevailing during the deposition of loess material. The existence of "loess-like" layers during the Pre-Quaternary Period substantiated the contention of L.S. Berg, that periods of drought had occurred at earlier epochs of the earth. The undisturbed burried layers at the Yergeny consist of Upper Pliocene reddish-brown Scythian clays, less frequently of greenish-grey, yellowish-brown or flesh-colored clays, superimposed by mighty layers of Quaternary loess-like loam. Light weight, light color and high porosity distinguish Scythian clays from Quaternary loam, which formed a solid impermeable layer. Diluvian reprocessing did hardly change the mineral composition of the uniform

Card 1/2

"About Burried Loess in Scythian Clays on the Yergeny"

11-7-7/23

colian material. Since the transformation process of loess takes places very slowly, even under considerable pressure by overlaying strata, it can be assumed that more deposits from earlier periods than Scythian clays may be found in their original structure at other continental depositions. The article contains 1 table. The bibliography lists 16 references, all of which are Slavic (Russian).

ASSOCIATION: North Caucasian Hydrogeological Expedition of the Ministry of Geology and Preservation of Natural Resources, Rostov-na-Donu (Severo-Kavkazskaya gidrogeologicheskaya ekspeditsiya Ministerstva geologii i okhrany nedr, Rostov-na-Donu).

SUBMITTED: May 3, 1956

AVAILABLE: Library of Congress

Card 2/2

PODGORODNICHENKO, V.I. [deceased]

Analogues of North Donets agglomerates in the margins of the Donets
Basin. Sov. geol. 8 no.4:123-125 Ap '65. (MIRA 18:7)

1. Volgo-Donskoye geologicheskoye upravleniye, Tsentral'naya
laboratoriya.

PODGORODNIKOV, F. P.

1949 Iecheniye gromolizovaniya pilit okainolov vuzhakov voprosnik.
Veterinariya, No 12.

AZERNIKOV, V.; ARLAZOROV, M.; ARSKIY, F.; BAKANOV, S.; BELOUSOV, I.;
BILENKIN, D.; VATEL', I.; VLADIMIROV, L.; GUSHCHEV, S.;
YELAGIN, V.; YERESHKO, F.; ZHURBINA, S.; KAZARNOVSKAYA, G.;
KALININ, Yu.; KELER, V.; KONOVALOV, B.; KREYNDLIN, Yu.;
LEBEDEV, L.; ~~PODGORODNIKOV, M.~~; RABINOVICH, I.; REPIN, L.;
SMOLYAN, G.; TITARENKO, V.; TOPILINA, T.; FEDCHENKO, V.;
EYDEL'MAN, N.; EME, A.; NAUMOV, F.; YAKOVLEV, N.;
MIKHAYLOV, K., nauchn. red.; LIVANOV, A., red.

[Little stories about the great cosmos] Malen'kie rasskazy o
bol'shom Kosmose. Izd.2., Moskva, Molodaia gvardiia, 1964.
368 p. (MIRA 18:4)

PODGORODNIKOV, I., kandidat tekhnicheskikh nauk.

"Teplushka-2" and "Teplushka-3" Russian stoves. Sel', strel. 11 no. 8:
16-17 Ag '56. (Stoves, Earthenware) (MLBA 9:10)

PODGORODNIKOV, Iosif Samuilovich, kand.tekhn.nauk; IVANTSOV, G.P.,
kand.tekhn.nauk, red.; MIRONOV, A.V., red.izd-va; PYRKINA,
N.F., tekhn.red.

[Stoves for apartments and homes; "Russian stoves," "Dutch
stoves," "Swedish stoves," and kitchen stoves] Bytovye pechi;
"teplushki," tipa "gollandki," "shvedki" i kukhonnii ochag.
Izd.3, perer. i dop. Moskva, Izd-vo M-va kommun.khoz.RSFSR,
1960. 220 p. (MIRA 14:4)
(Stoves, Earthenware)

PODGORODNIKOV, I. S.

Podgorodnikov, I. S. "A continuously burning furnace," In symposium: Voprosy kommunal. khoz-va, Moscow-Leningrad, 1949, p. 27-32

SO: U-3850, 16 June 53, (Letopis 'Zhrunal 'nykh Statey, No. 5, 1949).

PODGORODNIKOV, I. S.

"Construction of Heating Furnaces and the Thermal Conditions of a Dwelling to Be Heated." Sub 10 Apr 51, Academy of Communal Economy imeni K. D. Pamfilov

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

PODGORODNIKOV, I. S.

Technology

The Russian oven "Teplushka-2"; Moskva, Izd-vo Min. Kommunal'nogo Khoziaistva RSFSR.
1946

9. Monthly List of Russian Accessions, Library of Congress, May 1956, 2. Unclassified.

PODGORODNIKOY, Iosif Samuilovich, kandidat tekhnicheskikh nauk; IVANTSOV, G.F., kandidat tekhnicheskikh nauk, redaktor; BASHKIROV, L.B., redaktor izdatel'stva; ZHOROV, D.M., tekhnicheskiy redaktor

[Russian stoves "Teplushka-2" and "Teplushka-4"] Russkie pechi
"Teplushka-2" i "Teplushka-4." Moskva, Izd-vo Ministerstva kom-
munal'nogo khoziaistva RSFSR, 1956. 157 p. (MLRA 9:10)
(Stoves)

PODGORODNIKOVA, N. A.

Cand Med Sci - (diss) "Diagnostics and treatment of tubercular mesadenitis." Leningrad, 1961. 16 pp; (Leningrad State Order of Lenin Inst for Advanced Training of Physicians imeni S. M. Kirov); 400 copies; price not given; (KL, 10-61 sup, 226)

PODGORODNIKOV, N.A., mladshiy nauchnyy sotrudnik; ZAGRANICHNIY, B.,
tekhn.red.

[Indications for the diagnosis and treatment of tuberculosis of the lymph nodes of the abdominal cavity, intestine, and peritoneum (without active tuberculosis)] Ukazaniia po diagnostike i lecheniiu tuberkuleza limfaticeskikh uzlov briushnoi polosti, kishchnika i briushiny (bez aktivnogo legochnogo tuberkuleza). Sost.N.A.Podgorodnikovoy. Leningrad, 1960. 18 p. (MIRA 14:4)

1. Leningrad. Leningradskiy nauchno-issledovatel'skiy tuberkuleznyy institut.

(LYMPHATICS--TUBERCULOSIS)

TALIPOV, Sh.T.; PODGORONOVA, V.S.

Solubility of lead bromide fluoride. Dokl. AN Uz.SSR no.5:35-38
'58, (MIRA 11:8)

1. Sredneaziatskiy gosudarstvennyy universitet im. V.I. Lenina.
Predstavleno chlenom-korrespondentom AN UzSSR Kh.U. Usmanovym.
(Lead bromide fluoride)

PODGOROV, Nikola

The Falco subbutao L. Priroda Bulg 13 no. 2:85-88 Mr-Apr '64.

PODGORSKA, Janina

Studies on the purification of sewage waters from utility installations.
Prace instytutu i labor bad przem spoj 12 no.1:51-58 '62.

1. Centralne Laboratorium Przemyslu Paszowego, Pracownia Chemiczna,
Warszawa.

POLAND

PODGORSKA, J.; The Central Laboratory PP (Przemysl Paszowy) "Bacutil"
(Centralne Laboratorium PP "Bacutil")

"Gelatin Sponges."

Warsaw, Farmacja Polska, Vol 19, No 3, 10 Feb 63, p 51

Abstract: In an effort to replace an imported sponge material "Spongostan" (Denmark), extensively used in medicine and particularly in surgery, studies were undertaken to develop analogous materials. Bovine fibrinogen-gelatin sponges were made (experimental details not given). The sponges which contained the highest percentage of gelatin, had the best absorbent qualities, highest hemostatic activity and gave the weakest antigenic reaction.

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PODGORSKA, J.

Purification of the waste from enterprises of the meat industry. p. 41

GOSPODARKA MIESNA. (Polskie Wydawnictwa Gospodarcze) Warszawa, Poland
Vol. 11, no. 7/8, July/Aug. 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no1, Jan. 1960

Uncl.

PODGORSKA, Janina, mgr

Gelatin sponges. *Pharmacja Pol* 19 no.3:51 10 P '63.

1. Centralne Laboratorium Przemyslu Passowego Bacutil, Warszawa.

*

PODGORSKA, Janina (Warszawa)

The utilization of animal bolld for the production of fibrinous
gelatine sponges. Gosp miesna 14 no.2:30-31 F '62.

PODGORSKA-KLAWE, Zofia

Waclaw Pelikan, Professor of the University in Wilno (1790-1893).
On the occasion of 175th anniversary of his birth. Arch. hist.
med. 28 no.1/2:97-110 '65.

1. Z Zakladu Historii Medycyny Akademii Medycznej w Warszawie
(kierownik prof. dr. Stanislaw Konopka).

Podgorskaya, K.S.

chem Synthesis and polymerization of thioesters of methacrylic acid, M. M. Koten, T. M. Kiseleva, and K. S. Podgorskaya (Inst. High Mol. Compes., Moscow). *Zh. Obshch. Khim.* 26, 475-5 (1956). *Yb. P. 7* P. 511. 12. m. 5%. NaOH was added with cooling 10.5 g. $\text{CH}_3\text{CMeCOCl}$, yielding 58% $\text{CH}_3\text{CMeCOSPh}$, b. 105-7°, b. 117°, n_D²⁰ 1.5785, n_D²⁵ 1.5774. Also prepd. with $\text{CH}_3\text{CMeCO}_2\text{Ph}$, b. 80-2°, n_D²⁰ 1.5183; $\text{CH}_3\text{CMeCOSiPr}$, 38%, b. 118-80°, b. 130°, n_D²⁰ 1.5081; $\text{CH}_3\text{CMeCO}_2\text{CH}_2\text{Ph}$, b. 104-6°, n_D²⁰ 1.5143. The esters were polymerized in ampuls. At 60°, 100°, or 110° without a catalyst, the relative rates of polymerization (shown graphically) in descending order were: benzyl ester; thiobenzyl ester, thiophenyl ester, Ph ester. The relative order was the same in polymerization at 70° with 0.1% Bz_2O_2 . Ph ester gave the highest polymers, thiobenzyl ester the lowest (on the basis of viscosity data.).
G. M. Kosolapoff

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PM

Podgorokaya, K.S.

clw Synthesis and polymerization of thioesters of methacrylic acid M. M. Kotly, T. M. Kiseleva, and K. S. Podgorokaya 1971 139155 U.S.S.R. Engl translation See: A 50 139155 U.S.S.R. 1971

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5(3)

AUTHORS:

Ushakov, S. N., Lavrent'yeva, Ye. M., Podgorskaya, K. S.

SOV/62-59-1-15/38

TITLE:

On the Synthesis of Methylol Croton Amide (O sinteze metilol-krotonamida)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 1, pp 91 - 94 (USSR)

ABSTRACT:

There are no data available in publications on the synthesis of methylol croton amide. In the present paper it was obtained by the authors according to the following scheme: crotonic acid $\rightarrow$ crotonic acid chloride $\rightarrow$ crotonic acid amide $\rightarrow$ methylol croton amide. Crotonic acid was synthesized from malonic acid by the interaction with acetaldehyde in pyridine and with ethyl alcohol as a solvent. Crotonyl chloride was obtained by the effect of thionyl chloride on solid crotonic acid. Its yield amounted to 70% instead of 37% as mentioned in publications. There are numerous data on the synthesis of croton amide (Refs 4-9). It was obtained most easily by the effect of crotonyl chloride on liquid ammonia in ether solution at -35° . Methylol croton amide

Card 1/3

On the Synthesis of Methylol Croton Amide

SOV/62-59-1-15/38

was synthesized by the interaction of croton amide with paraform in the presence of sodium ethylate as a catalyst. Table 1 gives some data on some experiments of methylol croton amide synthesis. Methylol croton amide represents needle-shaped crystals which at low temperature are easily dissolved in water, alcohol and dioxane, and on heating in ethyl acetate, vinyl acetate and benzene. It was found that methylol croton amide can form ether on heating without a catalyst. The ether was obtained by heating methylol croton amide in toluene and distilling off the reaction water with the vapors of the solvent in the absence of the catalyst (Table 2). As may be seen from the analysis, the amount of nitrogen in ether approaches the theoretical content, and the melting point increased from 87° for methylol croton amide up to 136° for ether. The ether of methylol croton amide represents needle-shaped lustrous crystals which at low temperature are soluble in acetic acid and on heating in water, dioxane, benzene and xylene. There are 2 tables and 11 references, 1 of which is Soviet.

Card 2/3

On the Synthesis of Methylol Croton Amide

SOV/62-59-1-15/38

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR
(Institute of High-Molecular Compounds of the Academy of
Sciences, USSR)

SUBMITTED: April 27, 1957

Card 3/3

5 (3)

AUTHORS: Ushakov, S. M., Lavrent'yeva, Ye. M., SOV/62-59-5-12/40
Podgorskaya, K. S.

TITLE: On the Synthesis of Methylene Biscrotonamide (O sinteze
metilen-bis-krotonamida)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,
1959, Nr 5, pp 888-891 (USSR)

ABSTRACT: There are no references in publications with regard to the
synthesis mentioned in the title. These compounds are
interesting: they contain nitrogen, two double bonds, and are
capable of copolymerization. I. A. Arbuzova carried out tests
with acryl derivatives at the authors' institute. In this
work, methylene biscrotonamide was synthesized in three
different ways: 1) two molecules of methylol crotonamide
separate water and formaldehyde, 2) the amide of crotonic
acid separates water under the effect of methylol crotonamide,
3) the di-ester of methylol crotonamide separates formaldehyde
with thermal treatment. The first reaction took place without
catalyst by heating a xylene solution of methylol crotonamide.
Table 1 shows data of this synthesis. Nitrogen content, double
bonds, melting temperature, molecular weight and solubility of

Card 1/2

On the Synthesis of Methylene Biscrotonamide

SCV/62-59-5-18/40

the compound obtained were determined. (Data on analysis in table 2). The second reaction too, took place in xylene, with heating and without a catalyst. Tables 3 and 4 contain the same determinations of substances synthesized in the second way as table 2. Tables 5 and 6 show the corresponding data of the third way of synthesis. In this case the reaction desired was brought about by heating the di-ester in various aromatic solvents. The bromine number of the methylene biscrotonamide of the last two compounds obtained was close to the theoretically determined value. There are 6 tables.

ASSOCIATION: Institut vysokomolekulyarnykh soedineniy Akademii nauk SSSR
(Institute of High-molecular Compounds of the Academy of Sciences, USSR)

SUBMITTED: August 13, 1957

Card 2/2

USHAKOV, S.N.; LAVRENT'YEV, Ye.M.; PODGORSKAYA, K.S.; PETROVA, L.I.

Synthesis of vinylpyrrolidinone and vinyl alcohol copolymers. *Vysokomol. soed.* 6 no.8:1440-1441 Ag '64. (MIRA 17:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

S/0190/64/006/008/1440/1441

ACCESSION NR: AP4043781

AUTHOR: Ushakov, S. N., Lavrent'yeva, Ye. N., Podgorskaya, K. S., Petrova, L. I.

TITLE: The synthesis of copolymers of vinylpyrrolidone and vinyl alcohol

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 8, 1964, 1440-1441

TOPIC TAGS: copolymer, vinylpyrrolidone copolymer, vinyl alcohol copolymer, polyvinyl, diazoisobutyronitrile, methanolysis

ABSTRACT: Copolymerization of vinylpyrrolidone with vinylacetate (9:1) was carried out in the presence of diazoisobutyronitrile as the initiator to produce a copolymer from which, by subsequent (6, 8 and 10 hrs.) methanolysis with sodium or potassium methylate in absolute methanol at 20C, four new polymers were prepared with yields of 49.9, 49.64, 48.6 and 44.4% of the theoretical. The copolymers, precipitated with ether from the methanol solution in the form of white flakes, were washed on the filter with ether and dried in a vacuum at room temperature. Specifications for the procedure, the structural component pattern and the content of nitrogen, hydroxyl groups and acetate groups in the polymers are tabulated. The viscosity of the polymers was found to increase with the copolymerization duration. Orig. art. has: 1 table.

Card 1/2

ACCESSION NR: AP4043781

ASSOCIATION: Institut vy*sokomolekulyarny*kh soyedineniy AN SSSR (Institute of High-Molecular Compounds, AN SSSR).

SUBMITTED: 20Sep63

SUB CODE: MT, OC

NO REF SOV: 001

OTHER: 003

Card 2/2

KLICH, Antoni, mgr. inż.; KROK, Franciszek, mgr inż.; MALOWSKI, Marian, mgr inż.;
PODGORSKI, Alfred, inż.

Blasting in nonferrous ore mines. Rudy i metale 9 no.12:649-655 D
'64.

PODGORSKI, Alojzy (Gliwice)

On wages paid to staff members handling social allowances in factories.
Praca zabezp spol 6 no.3:19 Mr '64..

PODGORSKI, Andrzej, mgr. inz.; ROMANOWSKI, Witold, inz.; WINIARSKI,
Jacek, mgr. inz.

The shunt resistors in the low-voltage laboratory of the Electric
Engineering Institute. Inst elektrotech prace 10 no.28:65-76
'62.

1. Zaklad Urzadzen Rozdzielczych, Instytut Elektrotechniki,
Warszawa (for Podgorski and Romanowski). 2. Zaklad Wielkich
Pradow, Instytut Elektrotechniki, Warszawa (for Winiarski).

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PODGORSKI, Andrzej, mgr. inż.; HILGIER, Janusz, mgr. inż.

A wide-band power amplifier for the recording of recovery
transient voltage during short circuit tests. Inst elektrotech
prace 10 no.28:33-46 '62.

1. Zakład Urządzeń Rozdzielczych i Zabezpieczeń, Instytut Elektro-
techniki, Warszawa.

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S/196/63/000/002/021/026
E194/E155

AUTHOR: Podgórski, Andrzej

TITLE: Selection of damping ring parameters in a.c. electromagnets

PERIODICAL: Refarativnyy zhurnal, Elektrotekhnika i energetika, no.2, 1963, 67, abstract 2 I 318. (Prace Inst. elektrotechn., v.9, no.26, 1961, 51-68). (Polish: summaries in Russian, French and German).

TEXT: Results are given of an experimental investigation of the influence of the parameters of the damping rings on the ratio of the maximum and minimum tractive efforts of a standard a.c. electromagnet. The damping rings were in four narrow slots on the armature of the electromagnet in the gap, and enclosed various parts of the armature. Measuring windings placed in the slots were connected through a differentiating device to a cathode-ray oscillograph. The tractive effort ratio was determined from the ratio of the squares of the semi-axes of ellipses recorded on the oscillograms. The results showed that the maximum instantaneous

Card 1/2

Selection of damping ring parameters... S/196/63/000/002/021/026
E194/E155

effort does not depend on the parameters of the damping rings. The greatest ratio of efforts was obtained with rings which covered about two thirds of the armature core and were on its axis of symmetry. The ohmic resistance of the rings should be greater by a factor of 1 - 2 than the inductance. To a first approximation, the inductance of the damping rings may be determined experimentally from the magnetization curve of the core formed by the slots.
4 references.

ASSOCIATION: Zakład Urządzeń Rozdzielczych i Zabezpieczeń Inst.
Elektrotechn, Varshava. PNR
(Institute of Distribution and Safety Equipment,
Institute of Electro-engineering, Warsaw, Poland)

[Abstractor's note: Complete translation.]

Card 2/2

PODGORSKI, Andrzej, Mgr.inz.

The question of selecting damping rings with proper parameters
for A.C. electromagnets. Inst Elektrotech 9 no.26:51-68 '61.

1. Zaklad Urzadzen Rozdzielczych i Zabezpieczen, Warszawa.

PODGORSKI, Andrzej, mgr. inż.

Measurement of large alternating currents with the aid of air-core-transformer feeding an integrator. Prace Instytutu Elektrotechniki 10 no. 27:1-18 '62.

1. Zakład Urządzeń Rozdzielczych i Zabezpieczeń, Instytut Elektrotechniki, Warszawa, Miedzylesie, ul. Pozaryuskiego 28.

PODGORSKI, F. mgr inz.

Electric power for the production of calcium carbide. Chemik
17 no.3:89-92 Mr '64

SZULC, P.; PODGORSKI, J.

Recent development in control and safety systems for nuclear reactors. Nukleonika 9 no.7/8:551-561 '64

1. Institute of Nuclear Research, Warszawa-Swierk.

BORKOWSKI, W., inz.; PODGORSKI, J., inz.

Increasing the efficiency of automatic longitudinal lathes with
unchanged parameters by applying a leading and clamping device.
Mechanik 35 no.11:637-639 N '62.

PODGORSKI, Jan; WOLANSKA, Aniela

Cryoglobulinemia, pulmonary cirrhosis and psoriasis in a 7-year-old girl. Pediat pol 36 no.11:1171-1175 N '61.

1. Z Kliniki Gruzlicy Dzieciecej Kierownik: prof. dr med. II.
Marynowska i z Pracowni Analitycznej Kierownik: dr A. Wolanska
Instytutu Matki i Dziecka w Warszawie Dyrektor: prof. dr med.
F. Groer.

(SERUM GLOBULIN) (PSORIASIS in inf & child)
(PULMONARY FIBROSIS in inf & child)

BORKOWSKI, ~~Witold~~; PODGORSKI, Julian

Development of the design of automatic lathes in the Bydgoszcz
Automatic Lathe Plant. *Mechanik* 35 no.5:262 My '62.

1. Fabryka Automatow Tokarskich, Bydgoszcz.

PODGORSKI, Kazimierz

Determination of the type of flow of water through
permeable pit shaft wall linings. Gornictwo Gliwice no.8:
67-77 '64.

JANCZEWSKI, Marian; PODGORSKI, Mieczysław

Studies on the influence of the molecular structure on the optical properties of sulfinyl compounds. Pt. 12. Rocz chemii 37 no.6: 635-646 '63.

1. Katedra Chemii Organicznej, Uniwersytet im. Marii Curie-Skłodowskiej, Lublin.

L 36894-66 ENP(j) RM

ACC NR: AP6027114

(N)

SOURCE CODE: PO/0099/66/020/001/0125/0147

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TITLE: Investigation of the influence of molecular structure on the optical properties of sulphynyl compounds. XXVII. Synthesis of optically active 3 - phen-anthrylsulphinyllacetic acids

SOURCE: Roczniki chemii - annales societatis chimicae polonorum, v. 40, no. 1, 1966, 145-147

TOPIC TAGS: molecular structure, optic property, crystallization, organic salt, chemical synthesis

ABSTRACT: The synthesis of racemic 3 phenantrylsulphinyllacetic acid and some of its derivatives is described. The racemic sulphoxide was separated into its optical antipodes by means of fractional crystallization of a neutral brucine salt. Physical constants of the new compounds are given. [Orig. art. in French] [JPRS: 35,397]

SUB CODE: 07/ SUBM DATE: 12Aug65/ ORIG REF: 006/ OTH REF: 006

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JANCZEWSKI, Marian; PODGORSKI, Mieczysław

Studies on the influence of molecular structure on the optical properties of sulfenyl compounds. Pt.10. Roczniki chemii 36 no.11:1709-1711 '62.

1. Zakład Chemii Organicznej, Uniwersytet im. M. Curie-Skłodowskiej, Lublin.

PODGORSKI, Wladyslaw, mgr inz

Influence of the shape of the column of freezing tubes on the
efficiency of freezing pit shafts. Wiadom gorn 15 no.2:91-94
Mr '64.

PODGORSKI, Wladyslaw, mgr inz.

Application of ultrasonics to the control of the course of
freezing pit shafts. Wiad gorn 14 no.10:319-322 0 '63.

PODGORSKI, Wladyslaw, mgr inz.

Technological progress in Soviet pit shaft construction.
Wiadom gorn 14 no.11:337-341 N°63.

PODGOREKI, Wladyslaw, mgr inż.

Application of electricity in ore dressing and processing.
Rudy i metale 10 no.2:91-96 P 165.

PODGORSKI, Wladyslaw, mgr inz.

Experiments in using electricity for rock crashing. Wiadom
gorn 15 no.12:392-396 D '64.

PODGORSKI, Wladyslaw, mgr inz.

Nuclear explosions in the service of the mining industry. Przegl
techn 86 no.16:3 18 Ap '65.

PODGORSKIY, V.S. [Podhors'kyi, V.S.]

Quantity and species of lactic acid bacteria in the rumen of cattle. Mikrobiol. zhur. 27 no.6:37-41 '65.

(MIRA 19:1)

1. Institut mikrobiologii i virusologii AN UkrSSR.

PODGORZEC, Zbigniew

How long shall we complain about the Polish TV ? Przegl techn 84 no.49:7
8 D '63.

PODGOYETSKIY, M.L.

Pneumatic compensation transducer with an isodromic amplifier.
Priborostroenie no.2:5-8 F '62. (MIRA 15:2)
(Transducers)

ARKAD'YEV, A.G.; MAR'YANOVSKIY, Ya.M.; PODGOYETSKIY, M.L.; SHVARTSER,
V.I.; SHNEYEROV, M.S.

Air-jet reaction feedback in pneumatic converters with power
compensation. Priborostreenie no.2:5-7 F '61. (MIRA 14:2)
(Pneumatic control)

ACC NR: AT6021744

(A)

SOURCE CODE: UR/0000/66/000/000/0189/0202

AUTHOR: Podgoyetskiy, M. L.

ORG: none

TITLE: Stability of pneumatic compensating transducers

SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Pnevmoavtomatika (Pneumatic automation). Moscow, Izd-vo Nauka, 1966, 189-202

TOPIC TAGS: pneumatic device, pneumatic servomechanism, motion stability, stability compensation, pressure transducer, flow measurement

ABSTRACT: The stability of force-balancing pneumatic transducers and associated equipment is analyzed and methods for stabilizing their operation are suggested. The transducers consist of a measuring device, a pneumatic amplifier, and frequently, but not always, a power amplifier. The latter can be with a sufficient degree of accuracy described by the same equations as the pneumatic amplifier. A feedback loop which includes the measuring device and amplifier(s) is always used. Two types of force-balancing transducers are considered: one using a fixed gain, linear amplifier; the other with proportional-integrating, or integrating amplifier. The first system, though simpler, cannot always be satisfactorily utilized because the control of stability through damping may not be possible if the required damping is too great. In these cas-

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ACC NR: AT6021744

es, the use of proportional-integrating, or integrating amplifiers is indicated. Open-loop transducer functions are given for the three types of transducers analyzed, as are frequency response plots for varying time constants and gain of the systems. An appendix deals with the conditions for the linearization of the single- and two-stage pneumatic power amplifiers. Orig. art. has: 13 figures; 14 formulas.

SUB CODE: 13,⁰⁹12/ SUBM DATE: 03Feb56/ ORIG REF: 006/ OTH REF: 002

Card 2/2

BORKOWSKI, W., inż.; PODGORSKI, J., inż.

Longitudinal automatic lathe BP-U16. Mechanik 35 no.10:579-580 0 '62.

1. Fabryka Automatow Tokarskich, Bydgoszcz.

PODKOWKA, J.

The influence of solvent on organic reactions: the influence of dielectric constants of solvents on the ratio of *o*- to *p*-isomers in the nitration of phenol. J. Podkowska and A. Tarnawski (Tech. High School, Gliwicz, Poland). *Monatsh.* 90, 170-85 (1959).—PhOH was treated with NO_2 gas in org. and aq. solvents having different dielectric consts. It was found that an increase of the value of the dielectric const. was accompanied by an increase of the relative amt. of *p*-isomer in the product. PhOH was twice distd., the limiting fractions b. 181.5-2.5°, m. 42.7°. The results were (solvent, b.p., n_D^{20} , method of dehydration, dielectric const., dipole moment, % *o*-compd. obtained, *p* to *o* ratio, and % yield given): CCl_4 , 75.8-76.0°, 1.4808, silica gel, 2.22, 0, 66.03, 0.52, 55.2; C_6H_6 , 79.0-79.2°, 1.5007, silica gel, 2.28, 0, 65.50, 0.52, 57.5; ligroine, 57.0-100.0°, —, silica gel, —, —, 54.50, 0.52, 63.2; Et_2O , 33.9-34.2°, 1.3540, silica gel, 4.38, 1.15, 51.80, 0.93, 73.2; CHCl_3 , 60.1-60.4°, 1.4457, silica gel, 4.84, 1.15, 62.60, 0.59, 53.3; AcOH, 117.8-118.3, 1.3781, CaSO_4 , 6.13, 1.73, 31.80, 2.10, 68.3; Me_2CO , 55.7-55.8°, 1.3601, CaSO_4 , 21.45, 2.95, 38.10, 1.83, 74.2; MeCN, 59.2-59.7°, —, CaSO_4 , 38.80, 3.94, 43.70, 1.30, 71.3; MeNO_2 , 100.2-100.5°, 1.3820, silica gel, 39.40, 3.54, 32.15, 2.01, 58.1; HCO_2H , 104.5-105.5°, 1.3710, CaSO_4 , 57.00, 3.10, 50.40, 3.93, 75.4; H_2O , —, —, 80.40, 1.84, 5.28, 18.40, 73.9; $n\text{-C}_4\text{H}_9\text{OH}$, 138.1-138.8°, 1.4115, CaSO_4 , 15.00, 1.55, 48.70, 1.19, 82.8; PrOH , 95.7-95.9°, 1.3853, CaSO_4 , 23.00, 1.64, 45.10, 1.21, 75.7; EtOH , 77.5-77.7°, 1.3639, CaSO_4 , 25.00, 1.70, 50.60, 1.04, 71.4; MeOH , 64.0-64.2°, 1.3419, CaSO_4 , 31.20, 1.69, 70.00, 0.42, 96.4. NO_2 gas was cooled to -10° where it could be dried as a liquid with silica gel. PhOH (2 g.) was dissolved in 60 ml. solvent in a closed container having a thermometer, stirrer, and an inlet tube above and below the surface of liquid con-

nected to a flask for NO_2 , the container and flask being immersed in thermostats. The temp. of the container was raised to 14° , then 3.5 ml. (three-fold excess) liquid NO_2 added to the flask at 18° . The evapn. of NO_2 lasted approx. 1 hr. during which time the temp. of the nitrated soln. did not exceed 16° . The pressure was then equalized by opening a stopcock in the upper connecting tube and the soln. stirred 1 hr., then poured into a distn. flask with the addn. of 20 ml. $M\text{H}_2\text{SO}_4$, and the *o*-isomer distd. with steam. The distn. was stopped in each case after 300 ml. distillate were obtained. The nitrophenols were detd. bromatometrically. The sample was brominated in acid with a mixt. of KBr and $N/10\text{KBrO}_3$, KI added in 15 min., and the iodine titrated with $N/10$ thiosulfate. In each case the method of analysis was detd. by the solvent. The results showed that the *p* to *o* ratio increased with an increase in dielectric const. Mixts. of AcOH and H_2O showed clearly that with increased percentages of H_2O (i.e. high dielectric consts.) the *p* to *o* ratio increased too. Similar values were obtained with aq. Me_2CO , HCO_2H , and KCl. The increase of dielectric const. of the solvents was accompanied by "summary dipole moment" increases as calcd. by $\Sigma\mu = \mu_o x + \mu_n (100 - x)$, where μ_o was the dipole moment of *o*- $\text{O}_2\text{NC}_6\text{H}_4\text{OH}$, μ_n the dipole moment of *p*- $\text{O}_2\text{NC}_6\text{H}_4\text{OH}$, and x the % *o*- $\text{O}_2\text{NC}_6\text{H}_4\text{OH}$ in the mixed product. When $\log \Sigma\mu$ was plotted against $\log D$, a straight line resulted. The dependence of the dipole moment on the dielec. const. was shown by $\mu = \mu_p [1 + A(D - 1)/D + 2]$, where μ was the moment of the mol. in the solvent having dielec. const. D , μ_p the moment of the same mol. as vapor, and A its characteristic const. $\log \mu/D = f(\log D)$ was also a straight line, but only for small values.

S. Berger

PODLAHA, Josef

Hazards and prevention of injuries of the bile ducts during
resection of deep duodenal ulcer. Rozhl. chir. 39 no.5:308-313
My '60.

1. I. chirurgická klinika LF v Brně, přednosta prof. dr. J.
Podlaha.

(PEPTIC ULCER surg.P

(BILE DUCTS sedm. & inj.)

PODLINOV, I. S., AISEN, E. A., KLEINBOCK, Ya. I., PETROV, V. M. and BAYTURINA, O. Sh.

"Bronchial pneumonia in lambs."

Veterinariya, Vol. 37, No. 8, 1960, p. 51

Podlinov - Sci. Collaborator, Vet. Inst., Kazakh Acad. Agric. Sci -

INDEX I BOOK INFORMATION 100/1073

Problemy Matematiki, vol. 3 (Problems in Mathematics, No. 3) Moscow, Fizmatgiz, 1964. 224 p. 15000 copies printed.

Ed.: Aleksey Andreyevich Itskov i Corp. and eds.: O. G. Pletinskii, G. B. Lerner, R. Ya. Pletinskii, R. Ya. Pletinskii, and R. Ya. Pletinskii.

Subjects: This book is intended for specialists in mathematics, mechanics, and computers.

Contents: This book contains articles on problems in mathematics, mechanics, and computers. The articles are written by leading specialists in the theory of digital computers. In particular, the book contains articles dealing with the efficiency of computers. The book also contains articles on operations held in 1958-1959 at the Institute of Mathematics and Mechanics of the Academy of Sciences of the USSR. The book is intended for specialists in mathematics, mechanics, and computers.

Shvets, A. L., and L. M. Gubina. On the Problem of the Synthesis of Self-Organizing Systems with Regenerative Memory. 89

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Sil'chenko, A. M. On Certain Key Problems in the Theory of the Electronic Computing Machine of the Gorky Engineering-Technical Institute and Selecting a System of Coding in Digital-Type Machines. 139

Sil'chenko, A. M. On the Algorithmic Design of Technological Processes in the Machine-Building Industry. 149

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⑧

PODLUBNYY, Semen Abramovich; SUKHORUKOV, I.D., otv.red.; IVANOV, S.I.,
red.izd-va; CHASOVIKOVA, Z.I., tekhn.red.

[Setting-up cableway dump piles for coal mines] Montazh
kanatnykh terrikonikov na ugol'nykh shakhtakh. Alma-Ata,
TSentr.in-t nauchno-tekhn.informatsii, 1959. 23 p.

(MIRA 13:8)

(Coal mines and mining--Equipment and supplies)
(Cableways)

PODOLA, N.V., Cand Tech Sci - - (diss) "Investigation of the electrical and technological characteristics of low-frequency contact machines," Kiev, 1960, 16 pp (Kiev Polytechnical Institute) (KL, 34-60, 123)

YERSHOV, N.N., inzh.; PODOLYAKO, L.G.

Mechanized rectangular cross-section shaft sinking in the
United States (from "Engineering and Mining Journal," no.12,
1958, "Mining World," no.13, 1958, "Mines Magazine," no.4, 1958).
Shakht.stroi. no.1:27-29 Ja '60. (MIRA 13:5)

1. Institut gornogo dela AN SSSR.
(United States--Shaft sinking)

PODPALYY, A.F.

Peking Conference of Railroad Track Workers. Put' i put.khoz.
4 no.3:39-40 Mr '60. (MIRA 13:5)

1. Nachal'nik Glavnogo upravleniya puti i sooruzheniy Minister-
stva putey soobshcheniya SSSR.
(Peiping--Railroads--Congresses)

PODSEVALOV, B.V., inzh.

Experimental study of the cooling of gas turbine rotors by
blowing air through tail connections of the working blades.
Izv.vys.ucheb.zav.; energ. 3 no.5:118-128 My '60.
(MIRA 13:6)

1. Tsentral'nyy nauchno-issledovatel'skiy kotloturbinnyy
institut imeni I.I. Polzunova. Predstavlena nauchno-tekhnii-
cheskoy seksiiy turbomashin Uchenogo Soveta.
(Gas turbines--Cooling)

POD'YAPOL'SKAYA, V.P.

Distribution of tricalcium phosphates dissolving bacteria in
light-colored Chestnut soils. Agrobiologia no.1:86-90 Ja-F
'60. (MIRA 13:5)

1. Stalingradskiy sel'skokhozyaystvennyy institut.
(Phosphates) (Soil micro-organisms)

POENARU, V.

On the "length" of an Arbitrary Continuous Curve

Poenaru, V. Sur la "longueur" d'une courbe continue arbitraire. Acad. R. P. Roum. Stud. Cerc. Mat. 9 (1958), 173-180. (Romanian. Russian and French summaries)

Es seien C ein offenes Intervall, $\varphi(t)$ mit $t \in C$ eine stetige Kurve in R^n , A die Menge der Parameterwerte, denen mehrfache Punkte entsprechen und $J_1, J_2, \dots$ die offenen Intervalle, deren Vereinigung $C - A$ ist. Als "berechenbare" Länge der Kurve bezeichnet der Verf. die Summe der Längen der Kurven $\varphi(t)$ mit $t \in J_n$. Dies ist eine unteradditive Funktion von C und fällt bei höchstens abzählbarem A mit der gewöhnlichen Länge zusammen. Bedeutet hingegen B eine überabzählbare, abgeschlossene Teilmenge von C , so existiert eine Kurve mit $A \subset B$, deren berechenbare Länge kleiner als ihre gewöhnliche Länge ist.

K. Krickeberg (Heidelberg)

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1-F/W

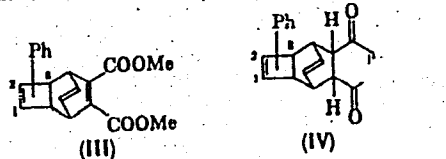
POGANY, J.

Distr: 4E3d

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Addition compound of phenylcyclooctatetraene with dimethyl acetylenedicarboxylate and with benzoquinone.
I. Pogány, Gh. Mihai, and C. D. Nenitzescu (Acad. R.P.R., Bucharest, Romania). *Ata. rep. populare Romine, Studii cercetari chim.* 7, 235-42 (1959) (German summary).—Phenylcyclooctatetraene (I) (5 g.) was heated with 6 g. di-Me acetylenedicarboxylate (II) at 130° 48 hrs. under a CH₃ atm. Fractionation *in vacuo* gave an addn. product (III), yellowish sirup, and a CHCl₃-sol. black resinous residue. III (5 g.) was kept under a CO₂ atmosphere at 280°. Gas (60 cc.) was evolved; the residue was fractionated *in vacuo*. Di-Me phthalate (1.35 g.), b_p 110-12°, and a nonvolatile polymer of phenylcyclobutadiene were obtained. The latter was converted into benzoic acid by oxidn. with KMnO₄. I (8.5 g.) and benzoquinone (9 g.) was boiled in 125 cc. C₆H₆ under an inert atm. 24 hrs. From the solid residue obtained by removing C₆H₆ *in vacuo*, 11 g. IV, m. 174-76°, was extd. with EtOH and recrystd. m. 184-8° (EtOH). IV (11 g.) was boiled in 100 cc. Ac₂O and

5 cc. concd. HCl 3 hrs., poured into 400 cc. H₂O, and agitated 1 hr. The diacetoxy deriv. (V) of IV (12.5 g.), not described so far, was obtained, m. 154-6° (recrystd. from EtOH, white needles, m. 157°). V (2 g.) was heated to 280-300°. Sublimation *in vacuo* at 130-80° gave 0.85 g. 1,4-diacetoxynaphthalene, m. 126-7° (MeOH), and a non-volatile polymer, which was converted into benzoic acid as above. It was concluded that the structures of III and IV were as indicated. The Ph substituent in both III and IV was either at the 2- or at the 8-position. The thermal decompn. of III and IV followed the Alder-Rickert scheme.



T. Szall

PODGORSKAYA, L. Ye.

LIVEROVSKIY, A.A.; SHMULEVSKAYA, E.I.; MAKAROVA, G.A.; PODGORSKAYA, L.Ye.

Properties of Vakhtan crude kiln tar (SVTS) and means for its utilization. Gidroliz. i lesokhim. prom. 10 no. 1:11-13 '57.

(MLRA 10:4)

1. Lesokhimicheskaya akademiya im. S.M. Kirova (for Liverovskiy, Shmulevskaya) 2. Kanifol'no-ekstraktsionnyy zavod "Vakhtan" (for Makarova, Podgorskaya)
(Wood tar)